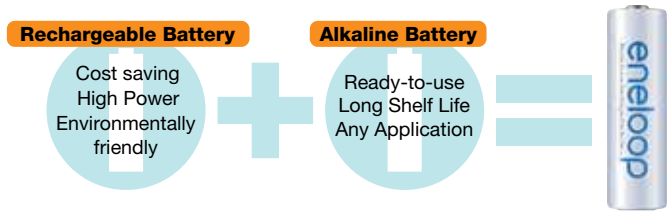
SANYO
by Panasonic

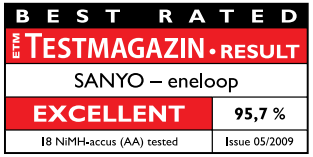
# CONSUMER BATTERIES ISSUE 2013

1 : 1800

# WHY ENELOOP?

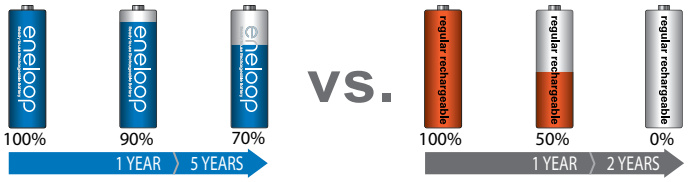
eneloop combines the advantages of rechargeable and alkaline batteries.




*ETM Testmagazin Result achieved with eneloop HR-3UTG.

eneloop impresses with extended service life.



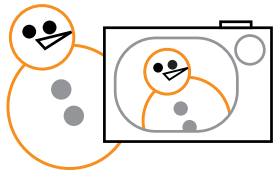

* Compared to regular rechargeable batteries with full initial charge. Storage at 20˚C ambient temperature (Discharge: 740mA <E.V.=1.0V>)

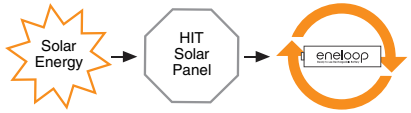
Take up to four times as many pictures with your digital camera using eneloop.

* Compared to SANYO alkaline batteries (LR6). Tested digital camera: SANYO DSC-S4. 1 shot every 20 seconds, 1 flash every 3 shots. LCD stays ON; at room temperature. Number of shots may differ, given the application and conditions.

eneloop is suitable for temperatures as low as -20˚C.

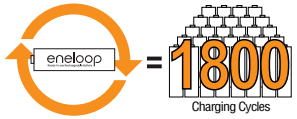
*The operation time can be shorter than at room temperature. Depending on the application and current output.





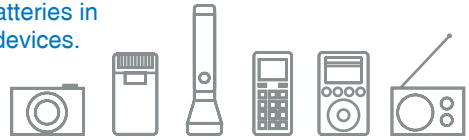

eneloop is pre-charged by solar energy.

*Through the Green Power Certification System in Japan, eneloop is pre-charged by "green power" from photovoltaic generation.




eneloop - combining cost efficiency and environmental compatibility.

eneloop replaces disposable batteries in almost all of your household devices.



* Capacity retention based on testing methods established by IEC61951-2(7.2.1) when stored at 20˚C (based on SANYO's estimation) (varies according to conditions of use)
All statements concerning the capacity (mAh) are based on IEC61951-2(7.2.1).
All statements concerning the life of the battery (cycle) are based on IEC61951-2(7.4.1.1).

# eneloop

**HR-3UTGB-8BP**

**Order Number:** F734S1197

Size: AA (R6)
Min. Capacity 1900 mAh
8 batteries per piece
EAN-code: 49-94334-29091-5

**Packaging Unit:**
ICA: 4 pcs, CAR: 64 pcs

**Dimensions CAR:**
250(L) x 320(W) x 175(H) mm
Gross weight: 14.6 kg

**HR-3UTGB-4BP**

**Order Number:** F734S1194

Size: AA (R6)
Min. Capacity 1900 mAh
4 batteries per piece
EAN-code: 49-94334-29088-5

**Packaging Unit:**
ICA: 10 pcs, CAR: 120 pcs

**Dimensions CAR:**
250(L) x 320(W) x 175(H) mm
Gross weight: 16.1 kg

**HR-3UTGB-2BP**

**Order Number:** F734S1193

Size: AA (R6)
Min. Capacity 1900 mAh
2 batteries per piece
EAN-code: 49-94334-29115-8

**Packaging Unit:**
ICA: 8 pcs, CAR: 216 pcs

**Dimensions CAR:**
380(L) x 288(W) x 270(H) mm
Gross weight: 14.4 kg

**HR-4UTGB-4BP**

**Order Number:** F734S1196

Size: AAA (R03)
Min. Capacity 750 mAh
4 batteries per piece
EAN-code: 49-94334-29090-8

**Packaging Unit:**
ICA: 12 pcs, CAR: 144 pcs

**Dimensions CAR:**
250(L) x 320(W) x 175(H) mm
Gross weight: 6.2 kg

**HR-4UTGB-2BP**

**Order Number:** F734S1195

Size: AAA (R03)
Min. Capacity 750 mAh
2 batteries per piece
EAN-code: 49-94334-29089-2

**Packaging Unit:**
ICA: 10 pcs, CAR: 270 pcs

**Dimensions CAR:**
380(L) x 288(W) x 270(H) mm
Gross weight: 9.7 kg

**HR-3UTGB-4UTGB-8BP**

**Order Number:** F734S1185

Size: AA (R6) & AAA (R03)
Min. Capacity 1900 & 750 mAh
8 batteries per piece
EAN-code: 49-94334-29040-3

**Packaging Unit:**
ICA: 10 pcs, CAR: 80 pcs

**Dimensions CAR:**
361(L) x 390(W) x 149(H) mm
Gross weight: 14.4 kg

**HR-3UTGB-4BP-CASE**

**Order Number:** F734S1200

Size: AA (R6)
Min. Capacity 1900 mAh
4 batteries & 1 case per piece
EAN-code: 49-94334-29094-6

**Packaging Unit:**
ICA: 8 pcs, CAR: 96 pcs

**Dimensions CAR:**
250(L) x 320(W) x 175(H) mm
Gross weight: 12.3 kg

**HR-4UTGB-5BP-CASE**

**Order Number:** F734S1201

Size: AAA (R03)
Min. Capacity 750 mAh
5 batteries & 1 case per piece
EAN-code: 49-94334-29095-3

**Packaging Unit:**
ICA: 8 pcs, CAR: 96 pcs

**Dimensions CAR:**
250(L) x 320(W) x 175(H) mm
Gross weight: 16.1 kg

**ENELOOP-CASE-BP**

**Order Number:** F734S1189

Size: For AA (R6) & AAA (R03)

1 case per piece
EAN-code: 49-94334-29079-3

**Packaging Unit:**
ICA: 8 pcs, CAR: 96 pcs

**Dimensions CAR:**
250(L) x 320(W) x 175(H) mm
Gross weight: 2.31 kg

**AD-C-2BP ENELOOP**

**Order Number:** F734S1152

Size: C (R14)
2 adaptors per piece
EAN-code: 49-94334-28179-1

**Packaging Unit:**
ICA: 4 pcs
CAR: 64 pcs

**Dimensions CAR:**
250(L) x 320(W) x 195(H) mm
Gross weight: 1.8 kg

**AD-D-2BP ENELOOP**

**Order Number:** F734S1153

Size: D (R20)
2 adaptors per piece
EAN-code: 49-94334-28180-7

**Packaging Unit:**
ICA: 4 pcs
CAR: 48 pcs

**Dimensions CAR:**
250(L) x 320(W) x 175(H) mm
Gross weight: 2.1 kg

# eneloop XX

**HR-3UWXB-4BP**

**Order Number:** F734S1222
Size: AA (R6)
Min. Capacity 2450 mAh
4 batteries per piece
EAN-code: 49-94334-29127-1

**Packaging Unit:**
ICA: 10 pcs, CAR: 120 pcs

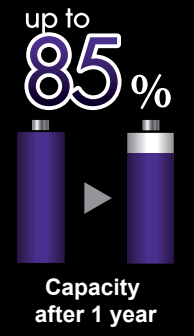
**Dimensions CAR:**
250(L) x 320(W) x 175(H) mm
Gross weight: 16.0 kg

**HR-4UWXB-4BP**

**Order Number:** F734S1223
Size: AAA (R03)
Min. Capacity 900 mAh
4 batteries per piece
EAN-code: 49-94334-29128-8

**Packaging Unit:**
ICA: 12 pcs, CAR: 144 pcs

**Dimensions CAR:**
250(L) x 320(W) x 175(H) mm
Gross weight: 9 kg



# eneloop lite

**HR-3UQ-2BP**

**Order Number:** F734S1155
Size: AA (R6)
Min. Capacity 900 mAh
2 batteries per piece
EAN-code: 49-94334-28254-5

**Packaging Unit:**
ICA: 8 pcs, CAR: 216 pcs

**Dimensions CAR:**
380(L) x 288(W) x 270(H) mm
Gross weight: 6.3 kg

**HR-3UQ-3BP**

**Order Number:** F734S1176
Size: AA (R6)
Min. Capacity: 900 mAh
3 batteries per piece
EAN-code: 49-94334-28907-0

**Packaging Unit:**
ICA: 8 pcs, CAR: 216 pcs

**Dimensions CAR:**
380(L) x 288(W) x 270(H) mm

**HR-4UQ-2BP**

**Order Number:** F734S1156
Size: AAA (R03)
Min. Capacity 550 mAh
2 batteries per piece
EAN-code: 49-94334-28255-2

**Packaging Unit:**
ICA: 10 pcs, CAR: 270 pcs

**Dimensions CAR:**
380(L) x 288(W) x 270(H) mm
Gross weight: 7.0 kg

**HR-4UQ-4BP**

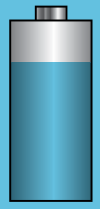
**Order Number:** F734S1078
Size: AAA (R03)
Min. Capacity: 550 mAh
4 batteries per piece
EAN-code: 49-94334-28824-0

**Packaging Unit:**
ICA: 12 pcs, CAR: 144 pcs

**Dimensions CAR:**
250(L) x 320(W) x 175(H) mm
Gross weight: 3.8 kg

Ideal for cordless phones

After 3 Years
75%
Remaining Capacity



# COMPARISON DIFFERENT ENELOOP MODELS

| Product Name | eneloop | | eneloop XX | | eneloop lite | |
|---|---|---|---|---|---|---|
| Technology | Ni-MH rechargeable battery | | Ni-MH rechargeable battery | | Ni-MH rechargeable battery | |
| Applications | all-purpose | | medium-to-high power consumption devices | | low-to-medium power consumption devices | |
| Charging / Discharging Cycles | up to 1800 | | up to 500 | | up to 2000 | |
| Self-discharge | approx. 70% capacity after 5 years | | approx. 85% capacity after 1 year | | approx. 75% capacity after 3 years | |
| Size | AA (mignon) | AAA (micro) | AA (mignon) | AAA (micro) | AA (mignon) | AAA (micro) |
| Model Name | HR-3UTGB | HR-4UTGB | HR-3UWXB | HR-4UWXB | HR-3UQ | HR-4UQ |
| Voltage | 1.2 V | 1.2 V | 1.2V | 1.2V | 1.2 V | 1.2 V |
| Typ. Capacity | 2000 mAh | 800 mAh | 2550 mAh | 950 mAh | 1000 mAh | 600 mAh |
| Min. Capacity | 1900 mAh | 750 mAh | 2450 mAh | 900 mAh | 900 mAh | 550 mAh |

# ENELOOP CHARGERS

## MQR06

**MQR06-E-4-3UTGB**

**Order Number:** F734S1217
Charger + 4 x HR-3UTGB
EAN-code: 49-94334-29112-7

**Packaging Unit:** CAR: 8 pcs

**Dimensions CAR:**
370 x 295 x 155 (mm)
Gross weight: 1.8 kg

**MQR06-U-4-3UTGB (UK)**

**Order Number:** F734S1226
Charger with UK plug
+ 4 x HR-3UTGB
EAN-code: 49-94334-29131-8
**Packaging Unit:** CAR: 8 pcs

**Dimensions CAR:**
370 x 295 x 155 (mm)

**MQR06-E-4-4UTGB**

**Order Number:** F734S1218
Charger + 4 x HR-4UTGB
EAN-code: 49-94334-29113-4

**Packaging Unit:** CAR: 8 pcs

**Dimensions CAR:**
370 x 295 x 155 (mm)
Gross weight: 1.8 kg

**MQR06-E-4-3UWXB**

**Order Number:** F734S1224
Charger + 4 x HR-3UWXB
EAN-code: 49-94334-29129-5

**Packaging Unit:** CAR: 8 pcs

**Dimensions CAR:**
370 x 295 x 155 (mm)
Gross weight: 1.8 kg

**MQR06-U-4-3UWXB (UK)**

**Order Number:** F734S1225
Charger with UK plug
+ 4 x HR-3UWXB
EAN-code: 49-94334-29130-1

**Packaging Unit:** CAR: 8 pcs

**Dimensions CAR:**
370 x 295 x 155 (mm)

## MQN09

**MQN09-E-4-3UTGB**

**Order Number:** F734S1215
Charger + 4 x HR-3UTGB
EAN-code: 49-94334-29110-3

**Packaging Unit:** CAR: 8 pcs

**Dimensions CAR:**
400 x 335 x 160 (mm)
Gross weight: 3.0 kg

**MQN09-E-4-4UTGB**

**Order Number:** F734S1216
Charger + 4 x HR-4UTGB
EAN-code: 49-94334-29111-0

**Packaging Unit:** CAR: 8 pcs

**Dimensions CAR:**
400 x 335 x 160 (mm)
Gross weight: 2.2 kg

## MDU01

**MDU01-E-2-3UTGB**

**Order Number:** F734S1213
USB travel charger
+ 2 x HR-3UTGB
EAN-code: 49-94334-29108-0

**Packaging Unit:**
CAR: 36 pcs

**Dimensions CAR:**
443 x 333 x 182 (mm)
Gross weight: 5.4 kg

**MDU01-E-2-4UTGB**

**Order Number:** F734S1214
USB travel charger
+ 2 x HR-4UTGB
EAN-code: 49-94334-29109-7

**Packaging Unit:**
CAR: 36 pcs

**Dimensions CAR:**
443 x 333 x 182 (mm)
Gross weight: 4.3 kg

# ENELOOP CHARGERS

## MDR02

### MDR02-E-2-3UTGB

**Order Number:** F734S1209
Charger + 2 x HR-3UTGB
EAN-code: 49-94334-29104-2

**Packaging Unit:** CAR: 12 pcs

**Dimensions CAR:**
443 x 333 x 182 mm
Gross weight: 3.6 kg

### MDR02-U-2-3UTGB (UK)

**Order Number:** F734S1211
Charger with UK plug
+ 2 x HR-3UTGB
EAN-code: 49-94334-29106-6

**Packaging Unit:** CAR: 12 pcs

**Dimensions CAR:**
443 x 333 x 182 mm
Gross weight: 4.5 kg

### MDR02-E-2-4UTGB

**Order Number:** F734S1210
Charger + 2 x HR-4UTGB
EAN-code: 49-94334-29105-9

**Packaging Unit:** CAR: 12 pcs

**Dimensions CAR:**
443 x 333 x 182 mm
Gross weight: 3.5 kg

### MDR02-U-2-4UTGB (UK)

**Order Number:** F734S1212
Charger with UK plug
+ 2 x HR-4UTGB
EAN-code: 49-94334-29107-3
**Packaging Unit:** CAR: 12 pcs

**Dimensions CAR:**
443 x 333 x 182 mm
Gross weight: 4.1 kg

## MQN04

### MQN04-E-4-3UTGB

**Order Number:** F734S1220
Charger + 4 x HR-3UTGB
EAN-code: 49-94334-29098-4

**Packaging Unit:** CAR: 8 pcs

**Dimensions CAR:**
517 x 375 x 135 (mm)
Gross weight (EU): 4.0 kg
Also available with UK plug*.
*(Order Number: F734S1221)

### MQN04-E-2-3UTGB

**Order Number:** F734S1204
Charger + 2 x HR-3UTGB
EAN-code: 49-94334-29100-4

**Packaging Unit:** CAR: 8 pcs

**Dimensions CAR:**
517 x 375 x 135 (mm)
Gross weight (EU): 3.8 kg
Also available with UK plug*.
*(Order Number: F734S1207)

### MQN04-E-2-4UTGB

**Order Number:** F734S1203
Charger + 2 x HR-4UTGB
EAN-code: 49-94334-29099-1

**Packaging Unit:** CAR: 8 pcs

**Dimensions CAR:**
517 x 375 x 135 (mm)
Gross weight (EU): 3.5 kg
Also available with UK plug*.
*(Order Number: F734S1206)

### MQN04-E-4-4UTGB

**Order Number:** F734S1205
Charger + 4 x HR-4UTGB
EAN-code: 49-94334-29087-8

**Packaging Unit:** CAR: 8 pcs

**Dimensions CAR:**
517 x 375 x 135 (mm)
Gross weight (EU): 3.7 kg
Also available with UK plug*.
*(Order Number: F734S1208)

### MQN04-E

**Order Number:** F734S1219
Charger only
EAN-code: 49-94334-29097-7

**Packaging Unit:** CAR: 8 pcs

**Dimensions CAR:**
517 x 375 x 135 (mm)
Gross weight (EU): 3.18 kg

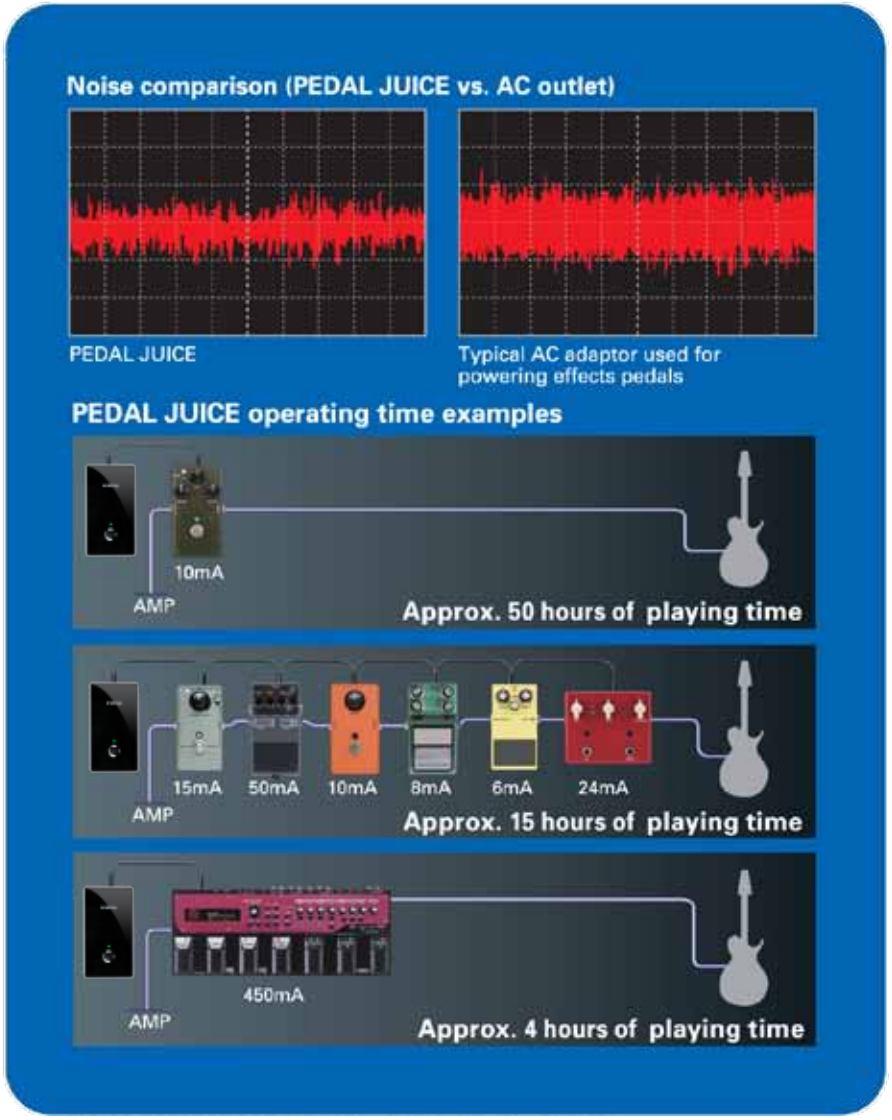
# COMPARISON DIFFERENT CHARGER MODELS

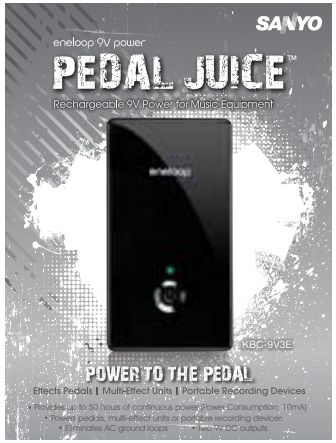
| | | | | |
|---|---|---|---|---|
| | | MQR06 | MQN09 | MDR02 |
| | | Ni-MH charger with individual cell charging control | Ni-MH Charger with -deltaV | Ni-MH Quick Charger |
| Type of Charger | | Premium Charger | Advanced Charger | Advanced Charger |
| Features | Special Features | Quick charger for the demanding user. With individual cell charging control, 100% full charge detection and microprocessor controlled overcharge. Includes Asian and American plug for travelling. | Overnight charger with -deltaV charging control and microprocessor controlled overcharge. Blue LED illumination while charging. Includes Asian and American plug for travelling. | Ideal for travelling: small, light, universal voltage power supply. With microprocessor controlled overcharge. |
| Charging Control | Individual Cell Charging Control | yes | - | yes |
| | Peak-Voltage-Detection | yes | - | yes |
| | -deltaV Charging Control | - | yes | - |
| | Timer Control | yes | yes | yes |
| | Temperature Control/Protection | yes | yes | yes |
| | Dry Cell Charge Protection | yes | yes | yes |
| Technical Data | Charging Possibilities | 1,2,3 or 4 rechargeable batteries AA/AAA | 2 or 4 rechargeable batteries AA/AAA | 1 or 2 rechargeable batteries AA/AAA |
| | Universal Voltage Power Supply | yes | yes | yes |
| | Input | AC 100-240V ~, 50-60Hz, 7W | AC 100-240V ~, 50-60Hz, 4W | AC 100-240V ~, 50-60Hz, 0.08A MAX |
| | Output | DC 1.2V: 4 x AA: 560mA, 2 x AA: 1120mA, 1 x AA: 1680mA | DC 2.4V: 2 x AA: 300mA | DC 1.2V: 2 x AA: 550mA |
| | | DC 1.2V: 4 x AAA: 280mA, 2 x AA: 560mA, 1 x AAA: 840mA | DC 2.4V: 2 x AAA: 150mA | DC 1.2V: 2 x AAA: 380mA |
| | Approximate charging time for eneloop AA (Typ. 2000 mAh), AAA (Typ. 800 mAh) | 1 x AA: 75 min., 2 x AA: 110 min., 4 x AA: 220 min. | 2 or 4 x AA: 450 min. | 2 x AA: 230 min. |
| | | 1 x AAA: 65 min., 2 x AAA: 100 min., 4 x AAA: 200 min. | 2 or 4 x AAA: 360 min. | 2 x AAA: 135 min. |
| | Charge Indicator | 4 LEDs | 2 LEDs | LED |
| | Size | 68 (W) x 112 (L) x 64 (H) mm | 132 (W) x 78 (L) x 37 (H) mm | 70.5 (W) x 74.5 (L) x 27.5 (H) mm |
| | Weight | approx. 116 g | approx. 130 g | approx. 76 g |

| eneloop | | | |
|---|---|---|---|
| | | MDU01 | MQN04 |
| | | Ni-MH USB-Charger | Ni-MH Overnight-Charger |
| Type of Charger | | Advanced Charger | Classic Charger |
| Features | Special Features | Charge your rechargeable batteries via the USB-plug of your computer. With microprocessor controlled overcharge. | This classical charger stops charging after 16 hours automatically. |
| Charging Control | Individual Cell Charging Control | yes | - |
| | Peak-Voltage-Detection | yes | - |
| | -deltaV Charging Control | - | - |
| | Timer Control | yes | yes |
| | Temperature Control/Protection | yes | yes |
| | Dry Cell Charge Protection | yes | yes |
| Technical Data | Charging Possibilities | 1 or 2 rechargeable batteries AA/AAA | 2 or 4 rechargeable batteries AA/AAA |
| | Universal Voltage Power Supply | Charging via USB | - |
| | Input | DC 5V 0.5A (MAX) | AC 230V ~, 50Hz, 5W |
| | Output | DC 1.2V: 1 x AA/AAA: 850mA | DC 2.4V: 2 x AA: 250mA |
| | | DC 1.2V: 2 x AA/AAA: 450mA | DC 2.4V: 2 x AAA: 120mA |
| | Approximate charging time for eneloop AA (Typ. 2000 mAh), AAA (Typ. 800 mAh) | 1 x AA: 140 min., 2 x AA: 280 min. | 2 or 4 x AA: 600 min. |
| | | 1 x AAA: 60 min., 2 x AAA: 120 min. | 2 or 4 x AAA: 480 min. |
| | Charge Indicator | LED | 2 LEDs |
| | Size | 47 (W) x 93 (L) x 17.5 (H) mm | 75 (W) x 118 (L) x 79 (H) mm |
| | Weight | approx. 48 g | approx. 230 g |

# PEDAL JUICE

## Rechargeable 9V Power for Music Equipment




### KBC-9V3E PEDAL JUICE

**Order Number:** 165202486
Rechargeable 9V Power for Music Equipment
EAN-code: 49-94334-286-017

**Packaging Unit:**
CAR: 12 pcs

**Dimensions CAR:**
360(L) x 330(W) x 255(H) mm

**Gross Weight:** 10.1 kg

**Features:**

- Clean, stable power for great sound over extended periods
- No ground loops to spoil your tone
- Powers multiple devices like pedals, multi-effects and portable recorders from dual 9V DC outputs
- Compact footprint like a standard effect pedal
- 1 ON/OFF button eliminates pluging in/out
- 3-stage power status LED indicator
- Water-resistant
- Rechargeable hundreds of times, saving money and helping the environment
- Just 3.5 hours to fully recharge using AC adaptor

# NICKEL METAL HYDRIDE

### HR-3U-2700-4BP

**Order Number:** F734S1180
Size AA (R6)
4 batteries per piece
EAN-code: 49-94334-29035-9

**Packaging Unit:**
ICA: 10 pcs, CAR: 120 pcs

**Dimensions CAR:**
320(L) x 250(W) x 175(H) mm
Gross weight: 16.05 kg

### HR-3U-2700-2BP

**Order Number:** F734S1179
Size AA (R6)
2 batteries per piece
EAN-code: 49-94334-29034-2

**Packaging Unit:**
ICA: 8 pcs, CAR: 216 pcs

**Dimensions CAR:**
380(L) x 295(W) x 265(H) mm
Gross weight: 16.2 kg

### HR-3U-2500-4BP

**Order Number:** F734S1183
Size AA (R6)
4 batteries per piece
EAN-code: 49-94334-29038-0

**Packaging Unit:**
ICA: 10 pcs, CAR: 120 pcs

**Dimensions CAR:**
320(L) x 250(W) x 175(H) mm
Gross weight: 15.9 kg

### HR-3U-2500-2BP

**Order Number:** F734S1182
Size AA (R6)
2 batteries per piece
EAN-code: 49-94334-29037-3

**Packaging Unit:**
ICA: 8 pcs, CAR: 216 pcs

**Dimensions CAR:**
380(L) x 295(W) x 265(H) mm
Gross weight: 15.4 kg

### HR-4U-1000-2BP

**Order Number:** F734S1181
Size AAA (R03)
2 batteries per piece
EAN-code: 49-94334-29036-6

**Packaging Unit:**
ICA: 10 pcs, CAR: 270 pcs

**Dimensions CAR:**
380(L) x 295(W) x 265(H) mm
Gross weight: 10.6 kg

### MQN04-E-4-2700

**Order Number:** F16431221
Plug and play charger
+ 4 x HR-3U 2700 mAh
EAN-code: 49-94334-23099-7

**Packaging Unit:**
CAR: 8 pcs

**Dimensions CAR:**
517(L) x 375(W) x 135(H) mm
Gross weight: 3.3 kg

### MQN04-E-4-2500

**Order Number:** F16431220
Plug and play charger
+ 4 x HR-3U 2500 mAh
EAN-code: 49-94334-23100-0

**Packaging Unit:**
CAR: 8 pcs

**Dimensions CAR:**
517(L) x 375(W) x 135(H) mm
Gross weight: 3.3 kg

# DISPLAYS

**eneloop metal floor display**

**Order Number:** PM2300050
Size: 50(L) x 50(W) x 190(H) cm

**Packaging Unit:**
1 pc

**Dimensions CAR:**
50(L) x 55(W) x 105(H) cm
Gross weight: 18.0 kg

**eneloop plastic counter display**

**Order Number:** PM2300051
Size: 44(L) x 18(W) x 52(H) cm

**Packaging Unit:**
1 pc

**Dimensions CAR:**
45(L) x 21(W) x 54(H) cm
Gross weight: 1.7 kg

**Sanyo plastic counter display**

**Order Number:** PM2300052
Size: 44(L) x 18(W) x 52(H) cm

**Packaging Unit:**
1 pc

**Dimensions CAR:**
45(L) x 21(W) x 54(H) cm
Gross weight: 1.7 kg

eneloop

For more details please call your local dealer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